LISTING OF CLAIMS

1(Previously Presented). An apparatus for recording a multichannel program comprising:

an audio converter adapted to use a conversion process to convert said multichannel program at least partially into a modified program requiring less channels than said multichannel program, said audio converter including control elements used to modify the conversion process;

a coefficient generator coupled to said audio converter to generate a coefficient indicative of the operation of said control elements;

a mixer arranged to mix said coefficient with program data corresponding to said modified program to generate mixed data; and

a recorder arranged to record the mixed data on a medium, wherein said medium is played using a reduced channel player device to reproduce said multichannel program, said reduced channel player making use of said coefficient.

2-3 (Cancelled).

4(Previously Presented). The apparatus of claim 1 wherein said audio converter is adapted to convert a multichannel program into a dual program that is played through a stereo player.

5-12 (Cancelled).

13(Previously Presented). A method of generating a data storage medium with a multichannel program comprising the steps of :

receiving a multichannel program;

generating a modified program corresponding to said multichannel program in accordance with a selectable parameter using a conversion process;

detecting a coefficient corresponding to said selectable parameter, said coefficient being descriptive of said conversion process ;

combining said coefficient and said multichannel program to form combined digital data; and

recording said combined digital data on the medium.

14(Original). The method of claim 13 wherein said step of generating a modified program includes generating a dual channel program.

15(Previously Presented). The method of claim 13 wherein said step of generating said modified program includes changing said selectable parameter until said modified program has preselected target characteristics.

16(Cancelled).

17 (Previously Presented). The method of claim 13 wherein said coefficient is indicative of a PAN control.

18 (Previously Presented). The method of claim 13 wherein said coefficient is indicative of a PHASE control.

19 (Previously Presented). The method of claim 13 wherein said coefficient is indicative of a LEVEL control.